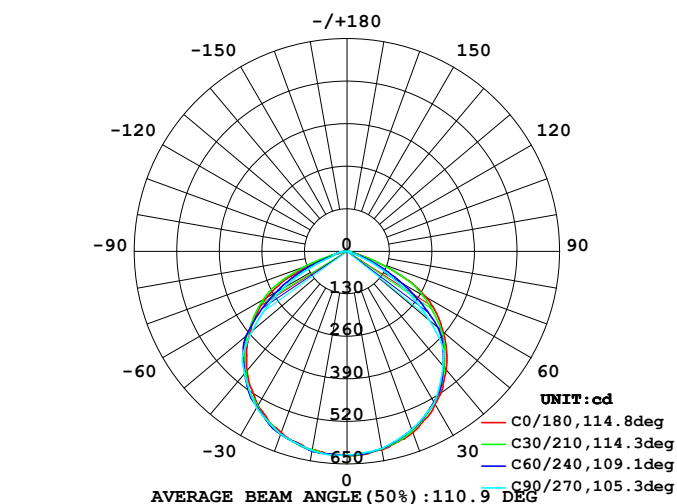


# LUMINAIRE PHOTOMETRIC TEST REPORT

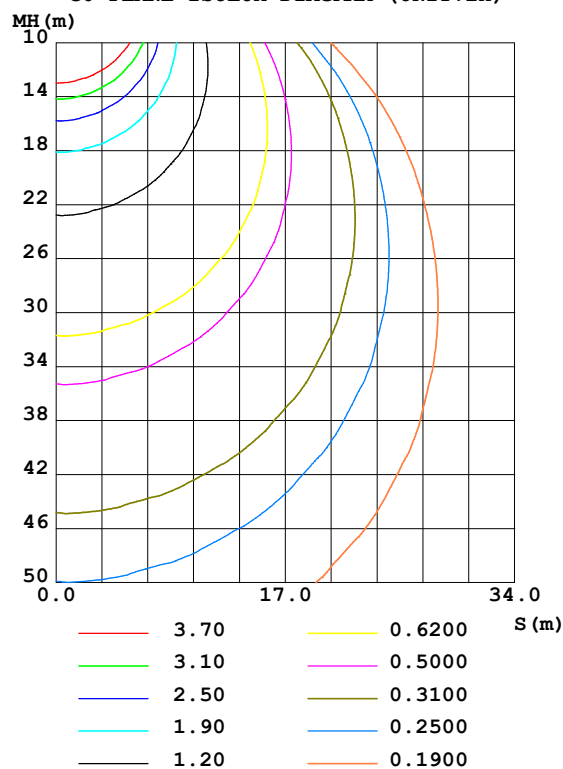
Test:U:0V I:0A P:0W PF:0 Lamp Flux:817.456x2 lm		
NAME: BE-DA-2x5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021062601
MFR.: JEWOO	SUR.:0.09m	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	BE-DA-2x5W	Imax(cd)	625.0	S/MH(C0/180)	1.29
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	0	TOTAL FLUX(lm)	1634.9	$\eta$ UP,DN(C0-180)	0.0,47.9
NOMINAL FLUX(lm)	817.456	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,52.1
LAMPS INSIDE	2	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	0	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CGQ  
 Test Date:2021-06-26

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.693m [K=1.0000]  
 Remarks: DC

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
5	622.6	620.5	618.0	620.4	622.9	622.8	624.2	622.1	0- 5	14.88	14.88	0.91,0.91
10	615.8	612.2	612.2	612.7	616.3	616.5	618.2	617.9	5- 10	44.23	59.11	3.62,3.62
15	602.5	599.7	596.0	600.5	603.6	609.9	606.4	608.0	10- 15	72.29	131.4	8.04,8.04
20	589.0	580.3	579.8	581.7	588.7	591.6	594.7	592.8	15- 20	98.13	229.5	14,14
25	565.7	558.0	557.1	560.6	570.4	575.6	573.6	572.4	20- 25	121.1	350.6	21.4,21.4
30	539.5	531.8	534.4	532.7	544.2	549.6	552.6	550.3	25- 30	140.3	490.9	30,30
35	509.7	501.0	495.5	504.3	510.8	520.1	520.1	518.1	30- 35	155.0	646.0	39.5,39.5
40	471.7	466.2	456.6	470.1	476.5	487.8	487.5	486.9	35- 40	164.1	810.1	49.6,49.6
45	430.2	418.0	412.9	423.0	435.0	444.3	450.6	442.9	40- 45	167.8	977.9	59.8,59.8
50	383.9	368.4	330.2	374.5	387.3	401.9	378.6	399.9	45- 50	164.4	1142	69.9,69.9
55	335.3	314.7	242.7	321.4	339.9	353.2	302.2	351.8	50- 55	151.2	1294	79.1,79.1
60	277.9	233.9	155.2	242.4	284.4	277.9	225.8	273.7	55- 60	130.2	1424	87.1,87.1
65	197.3	153.0	84.15	163.3	214.6	200.5	138.9	194.1	60- 65	101.5	1525	93.3,93.3
70	100.6	78.83	13.06	87.90	108.0	121.7	51.98	116.3	65- 70	64.47	1590	97.2,97.2
75	25.57	14.68	9.895	16.64	34.73	40.95	39.39	38.86	70- 75	28.60	1618	99,99
80	3.317	5.345	6.735	6.024	3.863	22.05	26.80	20.92	75- 80	9.995	1628	99.6,99.6
85	0.9710	2.898	3.575	3.140	1.163	11.52	14.22	10.99	80- 85	4.660	1633	99.9,99.9
90	0.1269	0.5536	0.4152	0.3575	0.1425	1.626	1.626	1.649	85- 90	1.891	1635	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

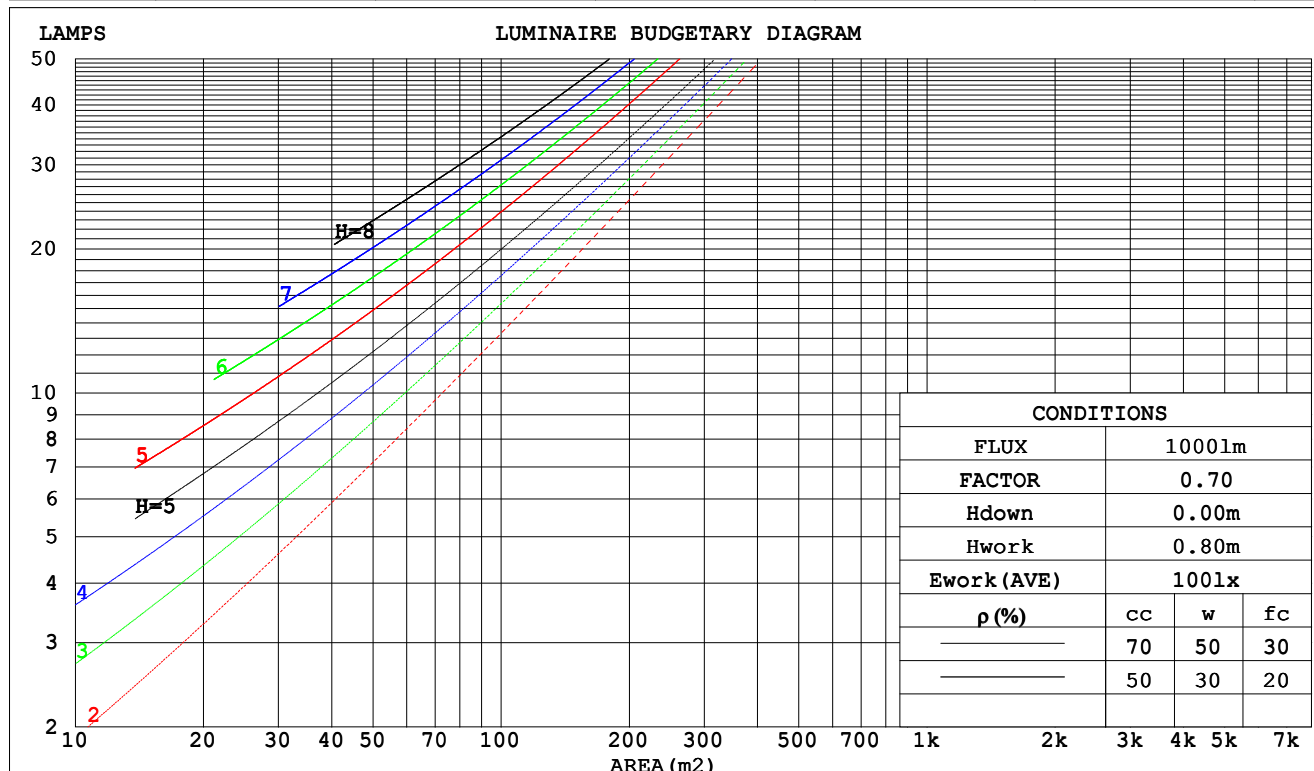
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CGQ  
 Test Date:2021-06-26

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.693m [K=1.0000]  
 Remarks: DC

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:0V I:0A P:0W PF:0 Lamp Flux:817.456x2 lm		
NAME: BE-DA-2x5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021062601
MFR.: JEWOO	SUR.:0.09m	PROTECTION ANGLE:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.06	1.02	.99	1.04	1.01	.97	.90	.97	.94	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.88	.82	.92	.86	.81	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.75	.69	.81	.74	.69	.78	.73	.68	.76	.71	.66	.73	.69	.65	.63
4.0	.74	.66	.59	.73	.65	.59	.70	.63	.58	.68	.62	.57	.66	.61	.57	.54
5.0	.66	.58	.51	.65	.57	.51	.63	.56	.50	.61	.55	.50	.59	.54	.49	.47
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.44	.55	.49	.44	.54	.48	.43	.41
7.0	.54	.46	.40	.53	.45	.39	.52	.44	.39	.50	.44	.39	.49	.43	.39	.37
8.0	.49	.41	.35	.49	.41	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.45	.37	.32	.45	.37	.32	.43	.36	.32	.42	.36	.31	.41	.36	.31	.29
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.38	.33	.28	.27



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CGQ  
 Test Date:2021-06-26

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.693m [K=1.0000]  
 Remarks: DC

## WEC AND CCEC

Test:U:0V I:0A P:0W PF:0 Lamp Flux:817.456x2 lm								
NAME: BE-DA-2x5W				TYPE:			WEIGHT:	
SPEC.:				DIM.:			SERIAL No.:2021062601	
MFR.: JEWOO				SUR.:0.09m			PROTECTION ANGLE:	

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.266	.151	.048	.259	.148	.047	.246	.141	.045	.234	.135	.043	.223	.129	.042		
2.0	.260	.143	.044	.254	.140	.043	.243	.135	.042	.232	.130	.041	.223	.126	.040		
3.0	.247	.131	.039	.242	.129	.039	.232	.126	.038	.222	.122	.037	.214	.118	.037		
4.0	.232	.121	.035	.227	.119	.035	.218	.116	.035	.210	.113	.034	.202	.110	.034		
5.0	.217	.111	.032	.213	.109	.032	.205	.107	.031	.198	.104	.031	.191	.102	.031		
6.0	.204	.102	.029	.200	.101	.029	.193	.099	.029	.186	.097	.028	.180	.095	.028		
7.0	.191	.094	.027	.188	.093	.027	.181	.092	.026	.175	.090	.026	.170	.088	.026		
8.0	.179	.088	.025	.176	.087	.025	.171	.085	.024	.165	.084	.024	.160	.082	.024		
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.156	.078	.022	.152	.077	.022		
10.0	.159	.076	.021	.157	.076	.021	.152	.075	.021	.148	.074	.021	.144	.072	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.078	.137	.098	.067	.094	.068	.047	.054	.040	.028	.017	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.146	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.029	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CGQ  
 Test Date:2021-06-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.693m [K=1.0000]  
 Remarks: DC

UGR(Unified Glare Rating) Table

Test:U:0V I:0A P:0W PF:0    Lamp Flux:817.456x2 lm											
NAME: BE-DA-2x5W						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:2021062601			
MFR.: JEWOO						SUR.:0.09m		PROTECTION ANGLE:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
x = 2H y = 2H	2H	26.4	27.8	26.6	28.0	28.2	24.7	26.1	24.9	26.3	26.5
	3H	27.1	28.4	27.4	28.7	28.9	24.7	26.0	25.0	26.2	26.5
	4H	27.1	28.3	27.4	28.6	28.8	24.6	25.8	24.9	26.1	26.3
	6H	27.0	28.2	27.3	28.4	28.7	24.5	25.7	24.8	25.9	26.2
	8H	26.9	28.1	27.3	28.3	28.6	24.5	25.6	24.8	25.9	26.2
	12H	26.9	28.0	27.2	28.3	28.6	24.4	25.5	24.8	25.8	26.1
4H	2H	26.6	27.9	26.9	28.1	28.4	25.2	26.4	25.5	26.7	26.9
	3H	27.5	28.5	27.8	28.8	29.1	25.3	26.3	25.6	26.6	26.9
	4H	27.5	28.4	27.8	28.8	29.1	25.2	26.2	25.6	26.5	26.8
	6H	27.4	28.2	27.8	28.6	28.9	25.1	26.0	25.5	26.3	26.7
	8H	27.3	28.1	27.7	28.5	28.9	25.1	25.9	25.5	26.2	26.6
	12H	27.3	28.0	27.7	28.4	28.8	25.0	25.8	25.5	26.2	26.6
8H	4H	27.4	28.2	27.8	28.5	28.9	25.1	25.9	25.6	26.3	26.7
	6H	27.3	27.9	27.7	28.3	28.8	25.1	25.7	25.5	26.1	26.6
	8H	27.2	27.8	27.7	28.2	28.7	25.1	25.6	25.5	26.1	26.5
	12H	27.2	27.7	27.7	28.1	28.6	25.0	25.5	25.5	26.0	26.5
12H	4H	27.3	28.0	27.7	28.4	28.8	25.1	25.8	25.5	26.2	26.6
	6H	27.2	27.8	27.7	28.2	28.7	25.1	25.6	25.5	26.1	26.5
	8H	27.2	27.7	27.7	28.1	28.6	25.0	25.5	25.5	26.0	26.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.4					+ 0.6 / - 0.7					
1.5H	+ 0.4 / - 0.6					+ 0.4 / - 0.9					
2.0H	+ 0.5 / - 0.8					+ 1.0 / - 1.9					

CIE Pub.117 Corrected 1635 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.7)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CGQ  
 Test Date:2021-06-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.693m [K=1.0000]  
 Remarks: DC

## UTILIZATION FACTORS TABLE

Test:U:0V I:0A P:0W PF:0 Lamp Flux:817.456x2 lm		
NAME: BE-DA-2x5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021062601
MFR.: JEWOO	SUR.:0.09m	PROTECTION ANGLE:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	48	42	59	48	42	58	48	41	35
0.80	70	59	52	69	59	52	68	58	52	45
1.00	79	69	62	78	68	62	76	70	61	55
1.25	87	77	70	85	76	70	83	75	69	62
1.50	91	83	76	90	82	76	87	80	75	68
2.00	98	90	85	96	89	84	93	87	82	75
2.50	102	95	89	100	93	88	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	101	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CGQ  
 Test Date:2021-06-26

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.693m [K=1.0000]  
 Remarks: DC

## ISOCANDELA DIAGRAM

Test:U:0V I:0A P:0W PF:0 Lamp Flux:817.456x2 lm		
NAME: BE-DA-2x5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021062601
MFR.: JEWOO	SUR.:0.09m	PROTECTION ANGLE:

Conical surface Flux(90deg):

977.93 lm

%lum = 59.8%

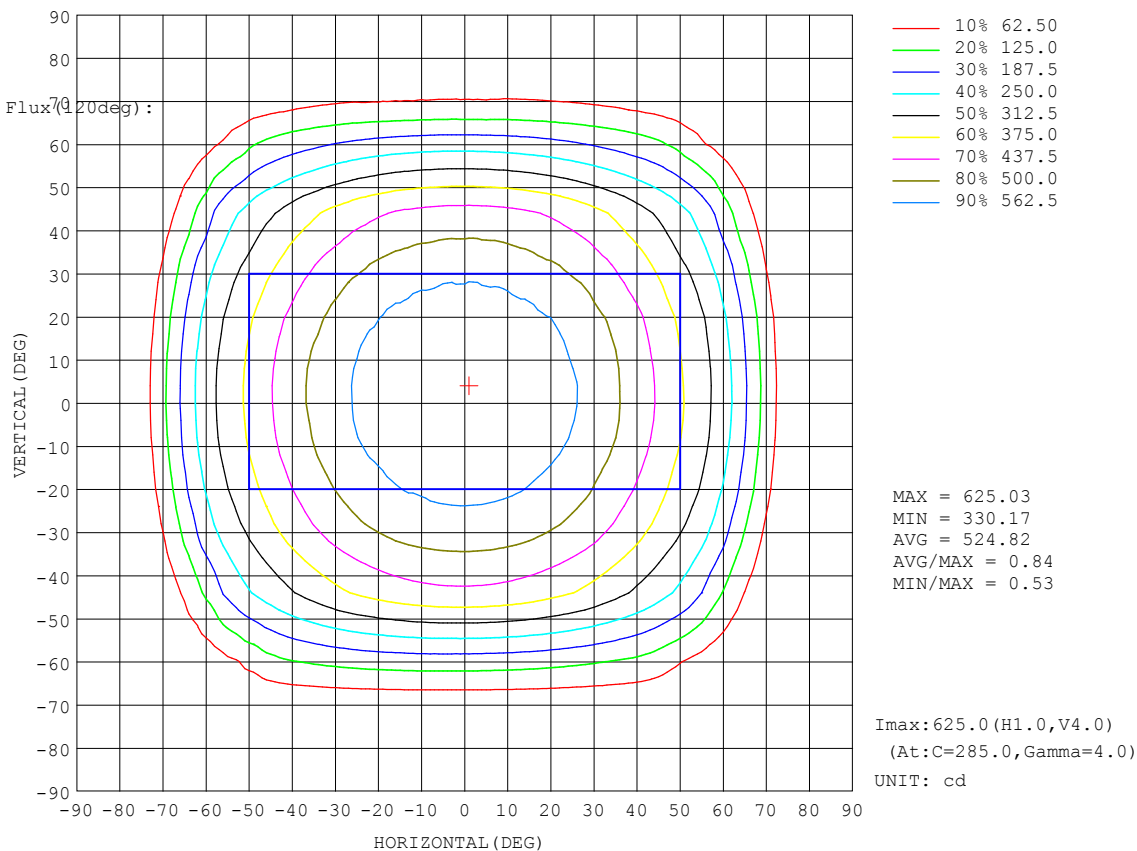
%lamp = 59.8%

Conical surface Flux(120deg):

1423.8 lm

%lum = 87.1%

%lamp = 87.1%

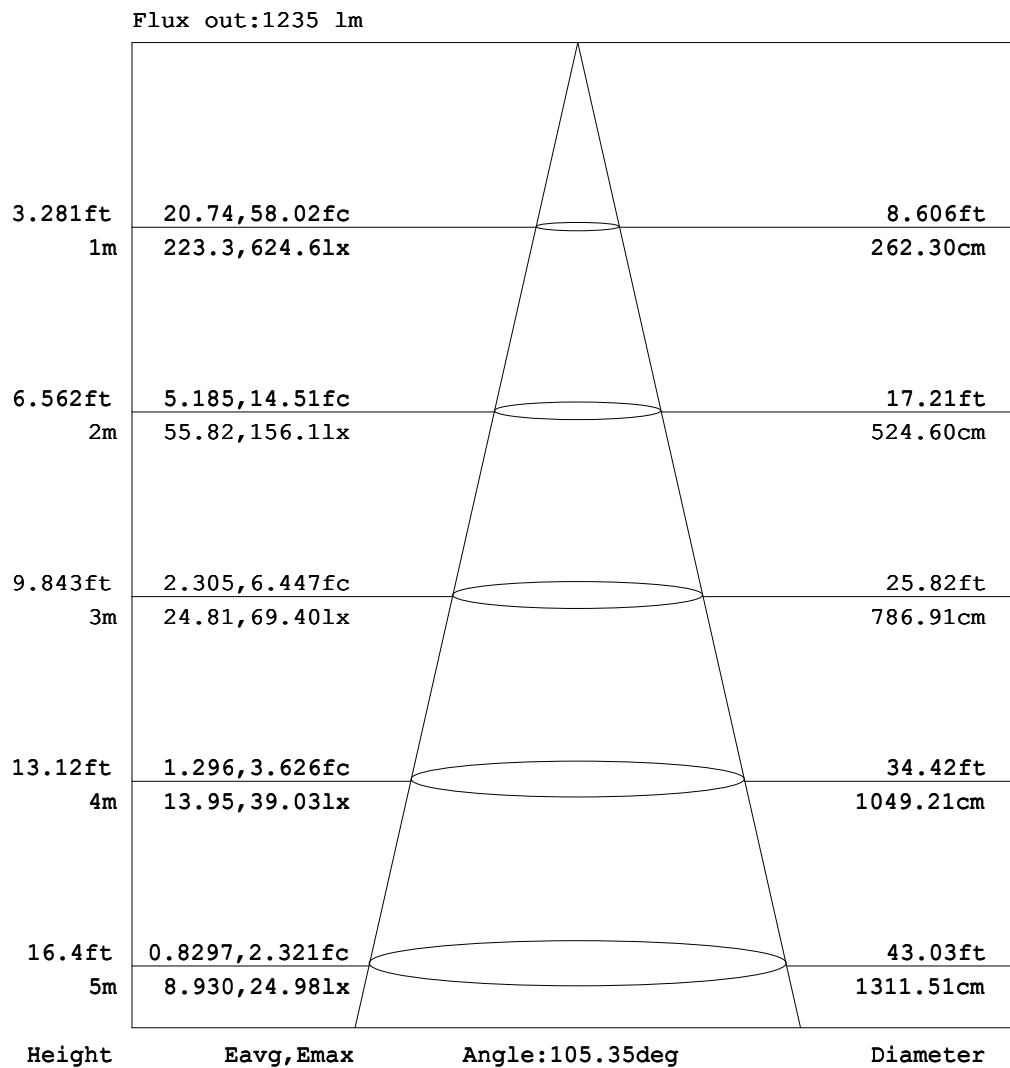


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: CGQ  
 Test Date: 2021-06-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity: 65.0%  
 Test Distance: 13.693m [K=1.0000]  
 Remarks: DC

## AAI Figure

Test:U:0V I:0A P:0W PF:0 Lamp Flux:817.456x2 lm		
NAME: BE-DA-2x5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021062601
MFR.: JEWOO	SUR.:0.09m	PROTECTION ANGLE:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

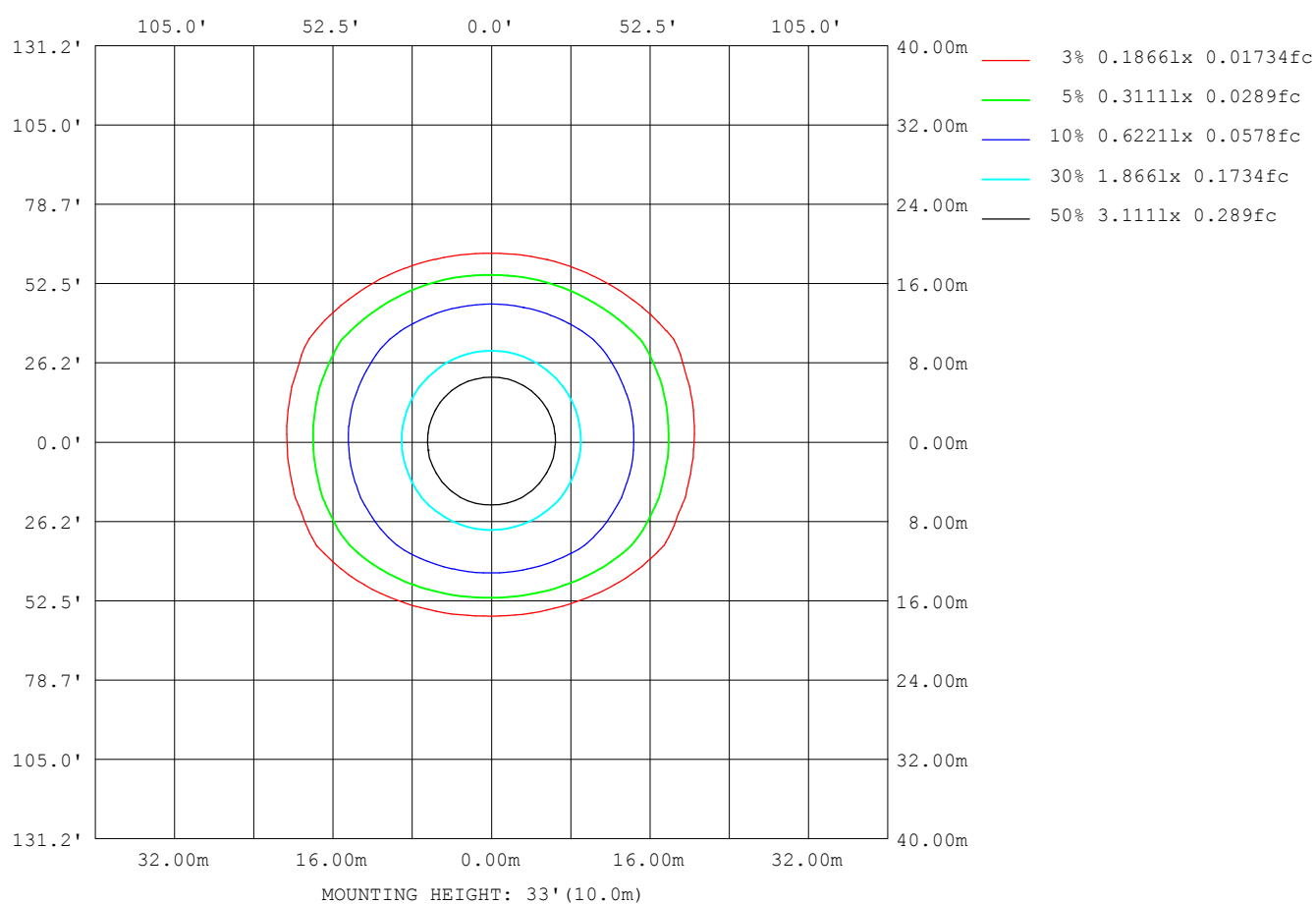
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CGQ  
Test Date:2021-06-26

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
Humidity:65.0%  
Test Distance:13.693m [K=1.0000]  
Remarks: DC



## ISOLUX DIAGRAM

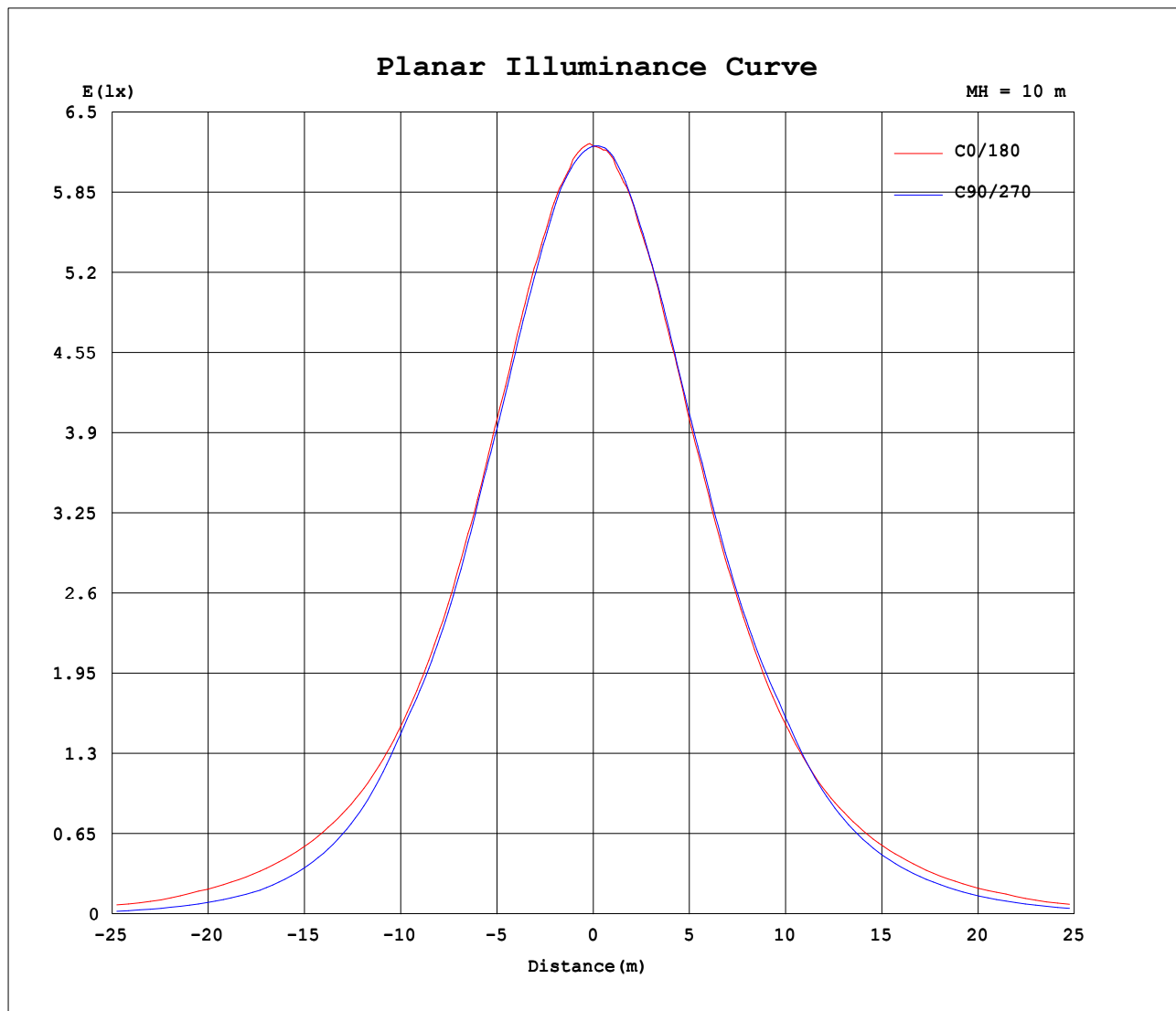
Test:U:0V I:0A P:0W PF:0 Lamp Flux:817.456x2 lm		
NAME: BE-DA-2x5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021062601
MFR.: JEWOO	SUR.:0.09m	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CGQ  
Test Date:2021-06-26

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
Humidity:65.0%  
Test Distance:13.693m [K=1.0000]  
Remarks: DC

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: CGQ  
Test Date: 2021-06-26

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
Humidity: 65.0%  
Test Distance: 13.693m [K=1.0000]  
Remarks: DC

UNIT: cd

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks: DC

```

UNIT: cd

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_v1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks: DC

```

UNIT: cd

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks: DC

```

Test:U:0V I:0A P:0W PF:0    Lamp Flux:817.456x2 lm		
NAME: BE-DA-2x5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021062601
MFR.: JEWOO	SUR.:0.09m	PROTECTION ANGLE:

[illegible]

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Temperature:25.3DEG	Humidity:65.0%
Operators:CGQ	Test Distance:13.693m [K=1.0000]
Test Date:2021-06-26	Remarks: DC

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Temperature:25.3DEG	Humidity:65.0%
Operators:CGQ	Test Distance:13.693m [K=1.0000]
Test Date:2021-06-26	Remarks: DC